

**What is claimed is:**

1. An optical information reader of a tabletop type comprising:

5 a projection unit for projecting light to a read object;

a trigger unit for instructing said projection unit for projecting light;

a decode unit for receiving reflected light from the read object and decoding information contained in  
10 the read object;

a memory unit for storing at least one preset function that can be set in said optical information reader;

a switch unit for calling the function to be set;  
15 and

a data processing unit for performing processing corresponding to the function to be set called by said switch unit.

20 2. The optical information reader as claimed in claim 1, wherein said said data processing unit processes the decoded data provided by said decode unit on the basis of the processing corresponding to the function to be set.

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3. The optical information reader as claimed in claim 1, wherein said memory unit stores at least one operation mode as a function for determining an operation state of said optical information reader.

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4. The optical information reader as claimed in claim 3, wherein said operation mode is provided at least two in said memory unit and is selected to execute the selected one operation mode.

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5. The optical information reader as claimed in claim 3, wherein each of said operation modes is able to select an operation function that is able to store in said memory unit.

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6. The optical information reader as claimed in claim 5, wherein memory unit memorizes selectable operation functions corresponding to each of all operation modes and the said switch unit executes one of said selectable operation functions.

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7. The optical information reader as claimed in claim 6, wherein said switch unit is able to distinguish between said execution of said operation functions and said selection of operation modes.

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8. An optical information reading method using an optical information reader having a projection unit, a trigger unit, a memory unit and a switch unit, said  
5 comprising:

selecting at least one function that can be set in the optical information reader and storing the selected function in the memory unit;

projecting light to a read object from the  
10 projection unit in response to an instruction of the trigger unit;

receiving reflected light from the read object and decoding information contained in the read object;

calling said selected operation function from the  
15 memory unit by the switch unit; and

performing processing corresponding to the function to be set called by the switch unit.

9. The optical information reading method as  
20 claimed in claim 8, wherein the processing corresponding to the function to be set is performed to the decoded data.

10. The optical information reading method as  
25 claimed in claim 8, further comprising:

storing at least one operation mode for determining  
an operation state of the optical information reader  
in the memory unit.

5        11. The optical information reading method as  
claimed in claim 10, wherein the functions are related  
to the operation modes and stored in the memory unit.

12. The optical information reading method as  
10 claimed in claim 8, further comprising:

reading a setting bar code provided for the  
function that can be set in the optical information  
reader so that the read function is stored in the memory  
unit.

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13. The optical information reading method as  
claimed in claim 8, further comprising:

connecting the optical information reader to a  
computer and providing the function that can be set in  
20 the optical information reader by software in the  
computer.

14. An optical information reader comprising:  
a projection unit for projecting light to a read  
25 object;

a trigger unit for ordering said light projecting  
to said projection unit;

a decode unit for receiving reflected light from  
said read object and decoding information contained in  
5 the read object;

a data processing unit for processing a data  
corresponding to said decoded information and decoded  
by said decode unit;

a memory unit for setting up at least one  
10 operation mode to determining an operation state of said  
optical information reader and for providing selectable  
operation function corresponding to each of said  
operation mode;

an operation mode switching means for selecting  
15 said operation mode setup into said memory unit; and

an switching means for executing said selected  
operation function corresponding to the selected  
operation mode and provided from said trigger unit  
separately.

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15. The optical information reader as claimed  
in claim 14, wherein said switching means is the same  
to said operation mode switching means and said  
switching means is able to execute the selected  
25 operation function and transmit between a plurality of

said operation modes.

16. The optical information reader as claimed  
in claim 15, wherein an execution of said switching means  
5 corresponding to execution of the selected operation  
function and said operation mode transition is  
distinguished based on different pressed time of said  
switch means each other.

10 17. The optical information reader as claimed  
in claim 16, wherein when said pressed time of said  
switching means is shorter than a predetermined time,  
the present selected operation function is executed,  
and when said pressed time of said switching means is  
15 longer than said predetermined time, the present  
selected operation mode is changed in turn.

18. The optical information reader as claimed  
in claim 17, wherein said memory unit memorizes said  
20 selectable operation function by a table storing said  
selectable operation functions or processes to execute  
said selectable operation functions.

19. An operation method of an optical information  
25 reader having a switching means for providing a desired

operation function and executing said provided operation function, said method comprising:

a setup step for setting at least one operation mode to determine an operation state of said optical information reader;

a providing step for providing a selectable operation function corresponding to said operation mode;

a selection step for selecting said operation mode by said switching means; and

an executing step for executing said provided operation function corresponding to said selected operation mode.

20. An operation method of an optical information reader having a switching means for setting an operation mode from all of registered operation modes to decide an operation state of said optical information reader, providing a desired operation function corresponding to said set operation mode and executing said provided operation function, said method comprising:

a setup step for setting at least one operation mode to determine an operation state of said optical information reader based on a first predetermined pressed time of said switching means;

a providing step for providing a selectable operation function corresponding to said operation mode;

a selection step for selecting said operation  
5 mode by said switching means; and

an execution step for executing said provided operation function corresponding to said selected operation mode based on a second predetermined pressed time being different from said first predetermined  
10 pressed time.